



**SETSCO SERVICES PTE LTD**

18 Teban Gardens Crescent  
Singapore 608925  
Tel : (65) 6566 7777  
Fax: (65) 6566 7718  
Website: www.setsco.com  
Business Reg. No. 196900269D

**TEST REPORT**

(This Report is issued subject to the terms & conditions set out below)

Your Ref: -

Our Ref: MM-26377/LL/2

Date: 13 February 2012

Page 1 of 2

**Subject** : Testing of GFRP Rebar Ø45mm submitted by FiReP Rebar AG on 10 February 2012.

**Tested For** : **FiReP Rebar AG**  
Alte Jonastrasse 83  
CH-8640 Rapperswil  
Switzerland

**Attn:** Mr. Marc Schurch

**Date and Place of Test** : 10 February 2012 at Setsco Laboratory, Singapore

**Method of Test** : Tension Load Test  
The test sample was clamped on the Universal Testing Machine in a vertical position. Tension load was applied gradually until it reaches 1300kN. E-Modulus was then recorded.

**Description of Sample** : Three (03) pieces of GFRP Rebar Ø45mm with approximately total length of 1500mm (Refer to Photograph 1 attached) were received as follows:

S/No	Description	Qty
01	Ø45 GFRP Rebar	03

**Results** : Tension Load Test  
Refer to Table attached.

**Witnesses** : Mr. Phillip Ng (Basler & Hofmann)  
Mr. Naing Linn (SKS)

LAWRENCE LIM  
Testing Officer

CHENG KWANG MENG  
Manager (Mechanical Testing)  
Mechanical Technology Division

ReportOthers2012/mieyi

**Terms & conditions:**

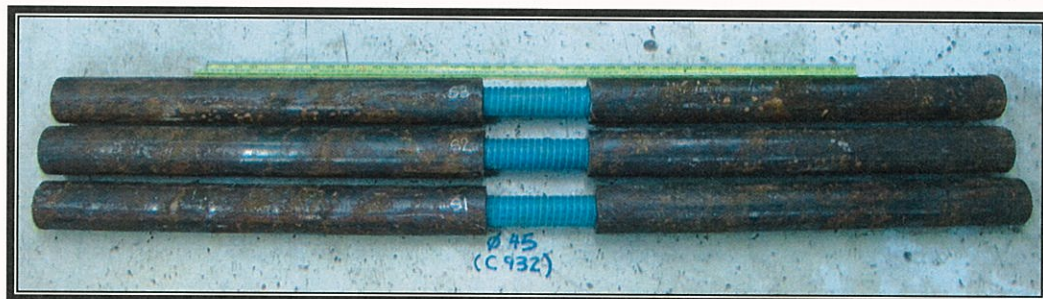
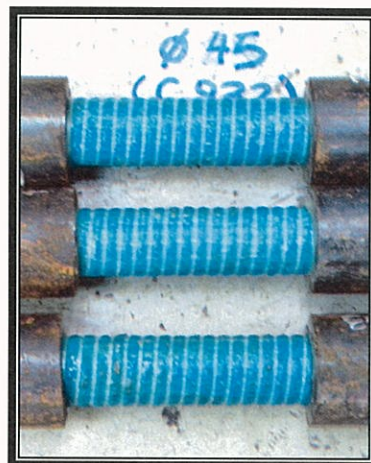
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**Results:****Table : Tension Load Test**

Sample Reference	Ø45 GFRP Rebar		
	S1	S2	S3
Nominal Cross-sectional Area (mm <sup>2</sup> ) #	1590		
Overall Length (mm)	1500		
Exposed Length (mm)	162	158	166
Load Stopped at (kN)	1300 **		
Tensile Strength (N/mm <sup>2</sup> )	817.6		
Tensile E-Modulus (GPa)	60	58	59

# – Based on Client's Sample Reference.

\*\*\* – The maximum load of the test specimens could not be evaluated , as the capacity limit of the testing machine was reached at 1300kN.

**Photograph 1 : Show samples submitted****Photograph 2 : Show tested samples.**

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*[Handwritten signature]*